PATENT COOPERATION TREATY

See form PCT/SA/220 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHOR (PCT Rule 43b/s.1) Date of mailing (day/month/pear) see form PCT/SA/210 (second sheet)) Applicant's or agent's file reference see form PCT/SA/220 see form PCT/SA/210 (second sheet)) PCT/B2/004/000944 International application No. PCT/B2/004/000944 International patient Classification (IPC) or both national classification and IPC CO8L63/00, C08G59/00, C08J5/24, B29C70/08, C08K5/00 Applicant HEXCEL COMPOSITES, LTD. 1. This opinion contains indications relating to the following items: Box No. II Bos No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lock of unity of invention Box No. IV Lock of unity of invention Box No. VI Cortain defects in the international application Box No. VII Cortain defects in the international application Box No. VIII Certain defects in the international application FUFITHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply when the application of the International Preliminary Examining Authority ("IPEA"). However, this does not apply when the application choress are thus less 6, bis(b) that written opinion of the IPEA, the applicant is linvited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/SA/220. 3. For further details, see notes to Form PCT/SA/220.	rom the NTERNATIONAL SEARCHING AUTHORITY				REC'D 3 U SEP 2004				
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In this opinion contains indications relating to the following items:	itema	tional Patent Classi 63/00, C08G59/	fication (IPC) or 00, C08J5/24	both national classification, B29C70/08, C08K5/	and IPC 00		.		
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Zeslawski, W

Telephone No. +49 89 2399-7159

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

International application No. PCT/IB2004/000944

	Box No. I	Basis of the opinion
١.	the langua	rd to the language , this opinion has been established on the basis of the international application in age in which it was field, unless otherwise indicated under this item.
	☐ This (langu	opinion has been established on the basis of a translation from the original language into the following lage , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).
2	. With rega	rd to any nucleotide and/or amino acid sequence disclosed in the international application and y to the claimed invention, this opinion has been established on the basis of:
	a. type of	material:
	□а	sequence listing
	□ ta	able(s) related to the sequence listing
	b. format	of material:
	□ ir	n written format
	i 🗇 ii	n computer readable form
	c. time o	f filing/furnishing:
		contained in the international application as filed.
		iled together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
	has	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
	4. Addition	nal comments:

International application No. PCT/IB2004/000944

Box No. II Priority				
▼ The following document has	not been furnished:			
□ copy of the earlier a	pplication whose prio	rity has been claimed	i (Rule 43 <i>bis</i> .1 and 66	.7(a)).
S translation of the ea	rlier application whos	se priority has been c	laimed (Rule 43 <i>bis</i> .1 a	nd 66.7(b)).
Consequently it has not been pevertheless been establish	en possible to considented on the assumption	er the validity of the p on that the relevant da	priority claim. This opinate is the claimed prior	ion has ity date.
This opinion has been estated has been found invalid (Rufilling date indicated above)	blished as if no priori	ty had been claimed of the transforth the transforth the transforth the purpos	due to the fact that the	priority clain
	000011			
Additional observations, if nece	ssary:		•	•
Additional observations, if nece	ssary:		•	
	Dulo 42	bis.1(a)(l) with regar	rd to novelty, inventi	ve step or
·	Dulo 42	<i>bis</i> .1(a)(i) with regares	rd to novelty, inventionstatement	ve step or
Box No. V Reasoned state industrial applicability; citati	Dulo 42	<i>bis</i> .1(a)(i) with regar ns supporting such	rd to novelty, inventionstatement	ve step or
Additional observations, if nece Box No. V Reasoned state Industrial applicability; citations	Dulo 42	<i>bis</i> .1(a)(i) with regains supporting such	rd to novelty, inventionstatement	ve step or
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see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/000944

Reference is made to the following documents:

D1: US-A-5 166 229 (NAKANO TAKAHIRO ET AL) 24 November 1992 (1992-11-24)

D2: EP-A-1 300 507 (HEXCEL COMPOSITES LTD) 9 April 2003 (2003-04-09)

D3: EP-A-1 338 406 (HEXCEL COMPOSITES LTD) 27 August 2003 (2003-08-27)

D4: US-A-3 666 615 (YAMAZAKI KAZUKIYO ET AL) 30 May 1972 (1972-05-30)

Concerning Point V:

Novelty (Art.33(2) PCT)

Document D1 discloses en epoxy resin gel composition comprising an urethanemodified bisphenol A type epoxy resin, a gelation agent, and a curing agent. The said epoxy resin composition forms one-pack thermosetting adhesives.

Document D2 discloses a fibre reinforced resin assembly, wherein a curing agent is uniformly dispersed in a crystalline epoxy resin.

Document D3 discloses a preform composite comprising a layer of a fibrous reinforcing material having on opposite surfaces thereof two different thermosetting resin layers. Document D4 discloses a composite layer sheet material, wherein a thermosetting resin layer and a hardening agent layer are separated by a contact preventive film layer which melts on heating and allows thermosetting resin to be cured.

The subject matter of claims 1-23 is regarded as being novel, since none of the cited documents discloses a resin composition comprising liquid and solid thermosetting resins and gelation agent as claimed in the present application.

Inventive Step (Art.33(3) PCT)

Document D1 is considered to represent the closest prior art. The subject matter of the present application is distinguishing from the closest prior art by the use of an additional thermosetting resin, which is dispersed in the gelled liquid thermosetting resin.

There appears to be, however no particular technical effect over prior art connected to this distinguishing feature. Therefore, the objective technical problem was to provide an alternative composition.

In the absence of any evidence, that the presence of an additional thermoplastic resin solves any technical problem in an unexpected manner, it seems to be that the subject matter of claim 1 of the present application is a routine modification of the resin composition of D1.

Miscellaneous

The wordings: "is present in a sufficient amount to form ... than said low viscosity state"

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/000944

of claims 1, 7 and 19; and the last par. of claim 7 are not regarded as being technical features, but merely as corresponding results to be achieved (Art.6 PCT). It appears to be possible to define the subject matter in more concrete terms, vis in terms of how the effect to be achieved.

PATENT COOPERATION TREATY

rom the NTERNATIONAL SEARCHING A	UTHORITY	•	REC'D 3 0 SEP 2004			
То:	·		PCT PCT			
see form PCT/ISA/	220	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION See paragraph 2 below				
Applicant's or agent's file reference see form PCT/ISA/220						
International application No. PCT/IB2004/000944	International filing date (data 20.01.2004	ay/month/year)	Priority date (day/monthlyear)			
International Patent Classification (I C08L63/00, C08G59/00, C08	IPC) or both national classification a 3J5/24, B29C70/08, C08K5/00	and IPC				
Applicant HEXCEL COMPOSITES, LT						
Box No. II Priority Box No. III Non-es Box No. IV Lack of Box No. V Reason applica Box No. VI Certair Box No. VII Certair Box No. VIII Certair Certair Box No. VIII Certair	stablishment of opinion with regard funity of invention and statement under Rule 43bis ability; citations and explanations and documents cited and defects in the international appropriate and preliminary examination is ternational Preliminary Examining Authority other than this one to der Rule 66.1bis(b) that written additional preliminary examinary examinary and the reply together, where appropriate appropriate and the reply together, where appropriate and the reply together.	s.1(a)(i) with regard supporting such standard supporting such standard such standard such standard such such such such such such such such	will usually be considered to be a). However, this does not apply where he chosen IPFA has notifed the			
Name and mailing address of the	e ISA:	Authorized Office	T Parameter			
European Patent D-80298 Munich Tel. +49 89 2399 Fax: +49 89 2399	- 0 Tx: 523656 epmu d	Zeslawski, W	49 89 2399-7159			

International application No. PCT/IB2004/000944

	Box No. I Basis of the opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.
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	a. type of material:
	□ a sequence listing
	☐ table(s) related to the sequence listing
	b. format of material:
	☐ in written format
•	☐ in computer readable form
	c. time of filing/furnishing:
	☐ contained in the international application as filed.
	☐ filed together with the international application in computer readable form.
	☐ furnished subsequently to this Authority for the purposes of search.
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2	4. Additional comments:

International application No. PCT/IB2004/000944

										
	Вох	No. II	Priority							
 1.			owing document has	not been	furnished	:				
			copy of the earlier ap				ı claimed (Ru	le 43 <i>bis</i> .1 an	d 66.7(a)).	•
			translation of the ear							
	,		quently it has not been been been established		id	lor the validity	of the priority	claim. This	opinion ha	s
2.		This op	oinion has been estab en found invalid (Rule ate indicated above is	lished as	if no prior	ity had been o	claimed due to e purposes of	the fact tha	t the priori	tv claim
3.	Add	ditional o	observations, if neces	sary:					·	
	Bo	x No. V Iustrial	Reasoned statem applicability; citatio	ent undens and e	er Rule 43 xplanatio	<i>bis</i> .1(a)(i) wins supportin	th regard to g such state	novelty, inve ment	entive ste	p or
1.		atement					•			
	No	velty (N)	Yes: No:	Claims Claims	1-23				·
	Inv	ventive s	step (IS)	Yes: No:	Claims Claims	1-23				
	Ine	dustrial a	applicability (IA)	Yes: No:	Claims Claims	1-23				•
					•	· ·	*			

Citations and explanations see separate sheet

International application No.

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